

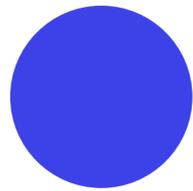
A COMPREHENSIVE CLEAN AIR SYSTEM

SATORI Clean Air Systems

A Division of
Satori Engineering, LLC
satoriscleanairsystems.com

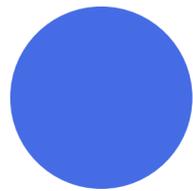
For your health

90% of our time is spent indoors.
Satori engineered systems provide
better air quality.



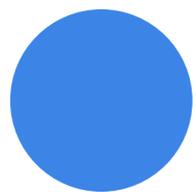
IMPROVE

...respiratory health by preventing asthma, allergies, and bronchitis. Satori eliminates pollutants such as dust, mold, and VOCs (volatile organic compounds).



REDUCE

...exposure to airborne pathogens: viruses, bacteria and COVID-19, helping to reduce the spread of existing and new infectious diseases.



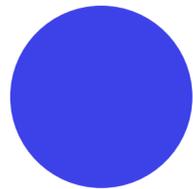
PREVENT

...long-term health decline, including those due to heart disease and cognitive decline, caused by chronic exposure to pollutants (PM2.5) and carbon monoxide.



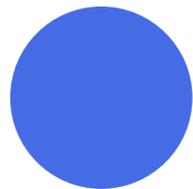
For your environment

Studies show that better interior air quality increases productivity and improves attendance, at work, school and public spaces.



SMARTER

Studies show cleaner air enhances concentration, decision-making, and learning – especially important in schools and workplaces.



CLEANER

Poor IAQ can contribute to the buildup of dust and corrosive particles that damage critical electronics, IT equipment and HVAC systems.



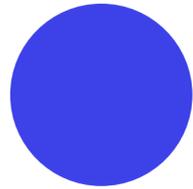
DRIER

Moisture issues lead to the growth of molds, mildew and can cause structural damage to your facility - bad for occupants, and buildings.



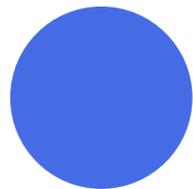
For compliance

In addition to health and facility damage, compliance and liability issues need to be considered.



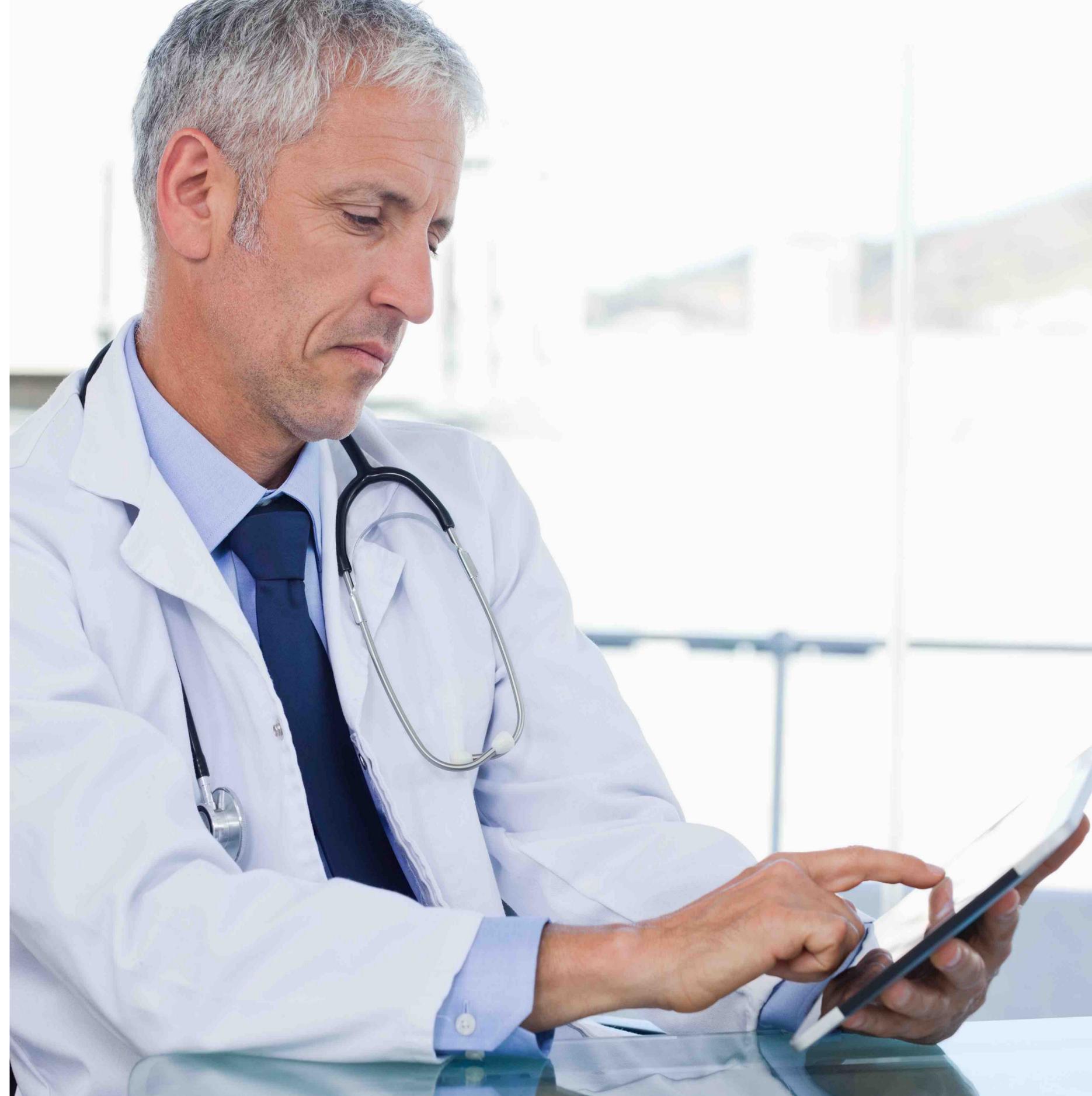
STANDARDS

Organizations must meet safety standards mandated by OSHA and ASHRAE guidelines.



RISKS

Good IAQ helps mitigate the legal and financial risks related to non-compliance or occupant health complaints.

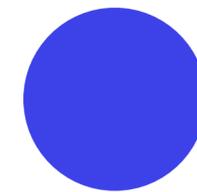


REAL-TIME MONITORING MADE SIMPLE



Satori Wireless Devices

Satori's monitoring devices are designed to suit various spaces and occupancy levels for schools, warehouses, corporate offices, hotels and residences. Satori's battery-powered IAQ devices are configured to easily connect to its proprietary cellular network.

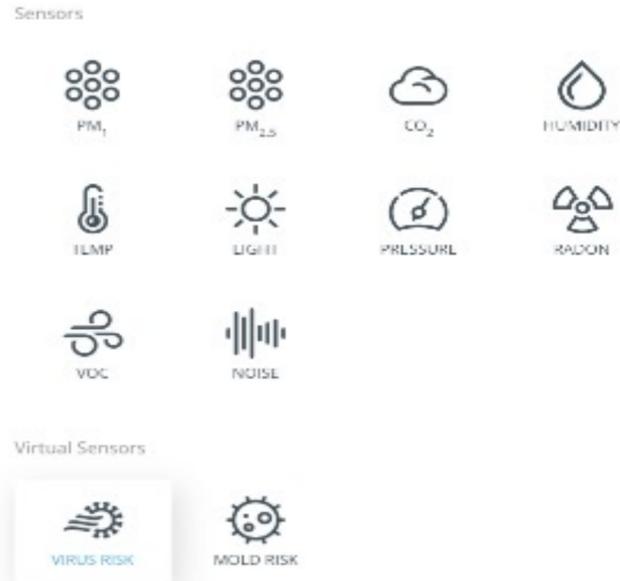


16 YRS EXPERIENCE

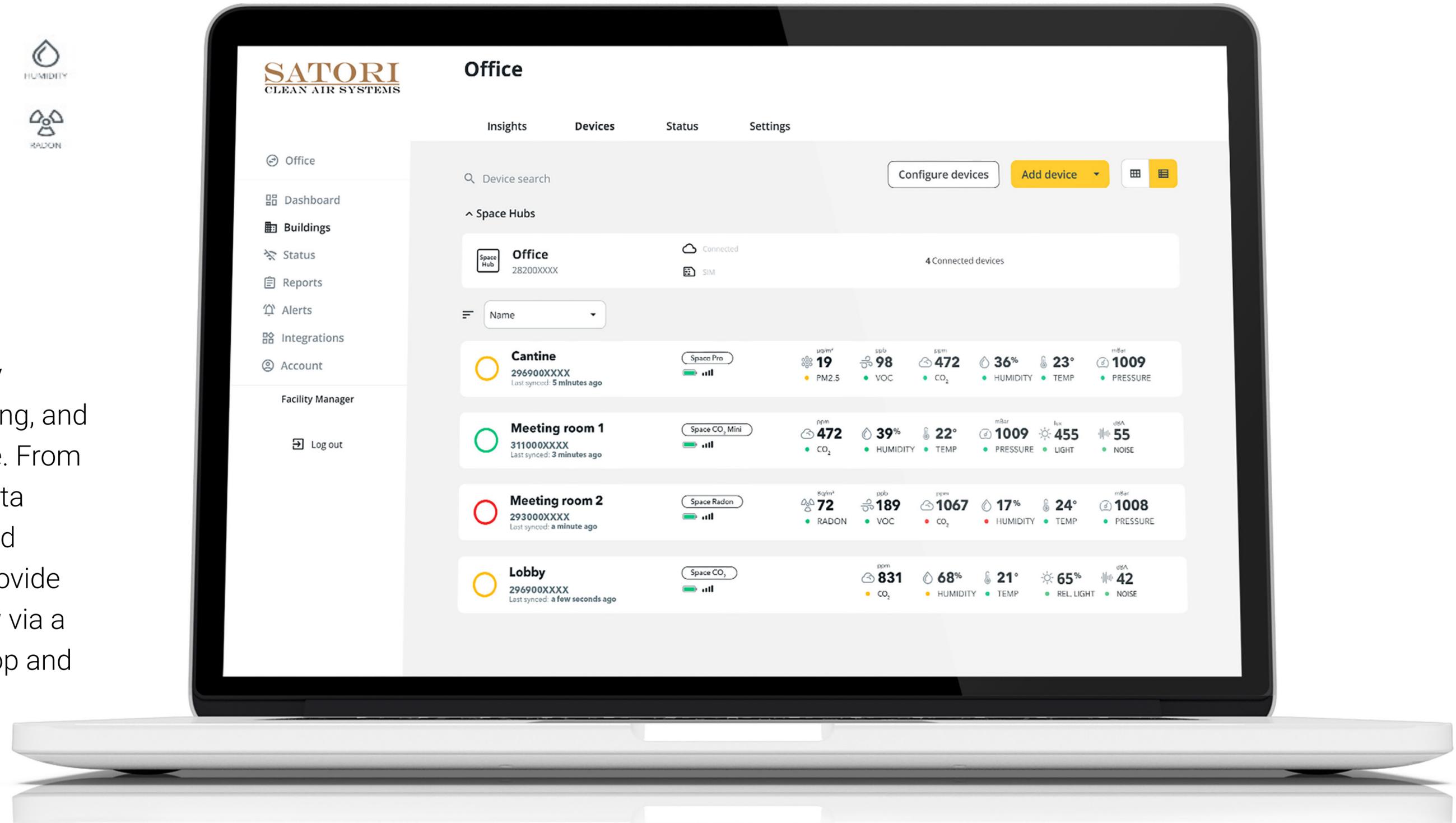


4000 INSTALLATIONS

Comprehensive Testing and Detailed Data



Gain insight for facility management, well-being, and regulatory compliance. From real-time air quality data to occupancy rates and energy insights, we provide a comprehensive view via a detailed desktop/laptop and mobile application.



The Solution



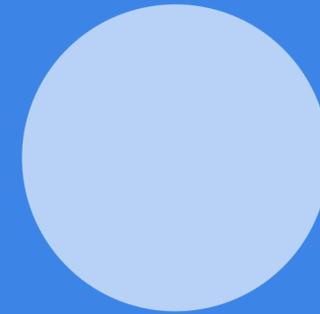
Satori HEPA Purifiers. The Trap.

Traps 99.5% of all dust, pollen, mold, bacteria, viruses and dander using powerful 3-stage HEPA filtration purification.



Satori S4. The Kill.

Kills pollutants and pathogens via a patented organic fluid dispersed into the HVAC system or in-room diffuser using the principal of Brownian Motion.



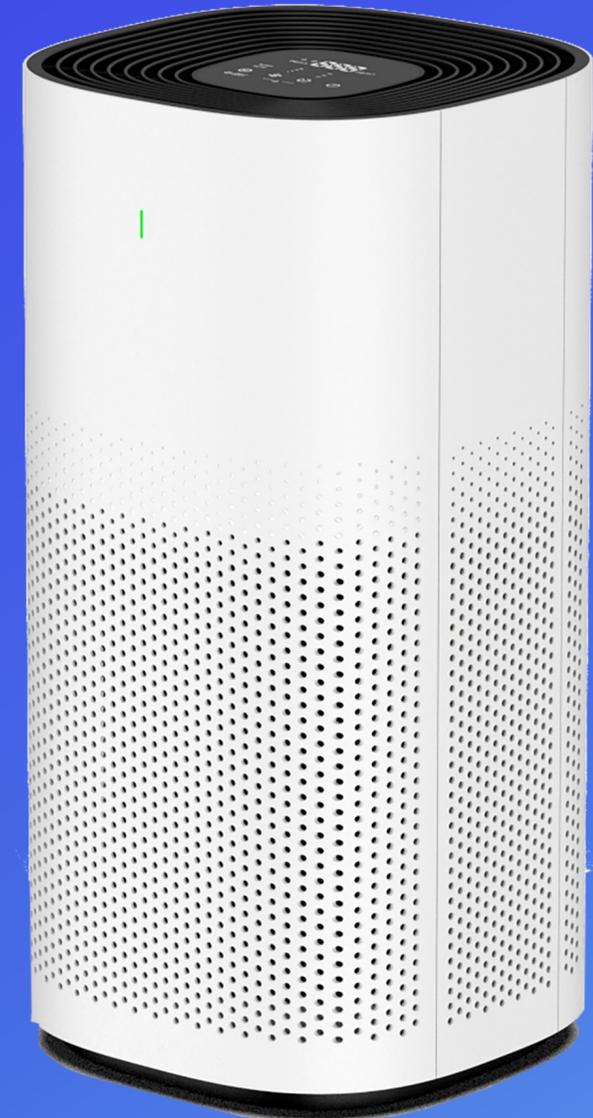
Satori Aromas. The Scent.

Dispersion of organic scent creates a pleasing, fresh and healthy environment with the benefit of aromatherapy.

Satori 1 HEPA Purifier

treats up to 12,000 square feet

- Delivers high-grade filtration with a 3-stage HEPA H13 filter.
- Traps 99.9% of airborne particles from 0.1 to 0.3 microns.
- 295CFM and 522m²/h Clean Air Delivery Rate.
- Nylon Pre-Filter traps larger particles.
- Active Carbon Filter removes odors and smoke.
- UV-C reduces bacteria.
- Wi-Fi connected with mobile application.
- 4-speed fan, timer, child-lock, auto and sleep modes.



Satori 2 HEPA Purifier

treats up to 3,400 square feet

- Delivers high-grade filtration with a 3-stage HEPA H13 filter.
- Traps 99.9% of airborne particles from 0.1 to 0.3 microns.
- 181CFM and 320m²/h Clean Air Delivery Rate.
- Nylon Pre-Filter traps larger particles.
- Active Carbon Filter removes odors and smoke.
- UV-C reduces bacteria.
- 3-speed fan, timer, auto and sleep modes.
- WiFi connected with mobile application.



Satori S4 HVAC System

treats up to 25,000 square feet

- Innovative air purification method based on Brownian Theory of Motion.
- Proprietary APAS (anti-pathogenic aerosol solution) fluid eradicates fungi, bacteria, yeasts and viruses.
- Organic, non-GMO fluid with proven efficacy and FDA approval.
- Certified 99.99% effective against pathogens and pollutants by CDC Standards.
- Developed by an award-winning American scientist and PhD Engineer, nominated for the Nobel Prize in 2021 for his pathogen control research resulting in the Satori Clean Air System.
- Quick and simple install at the HVAC air-handler location.
- Medical-grade construction.



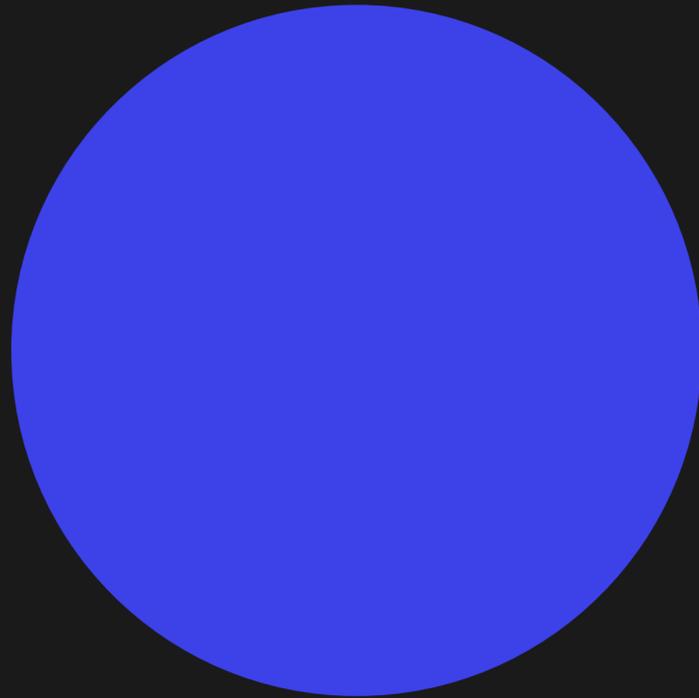
Satori HVAC/Portable System

treats up to 12,000 square feet

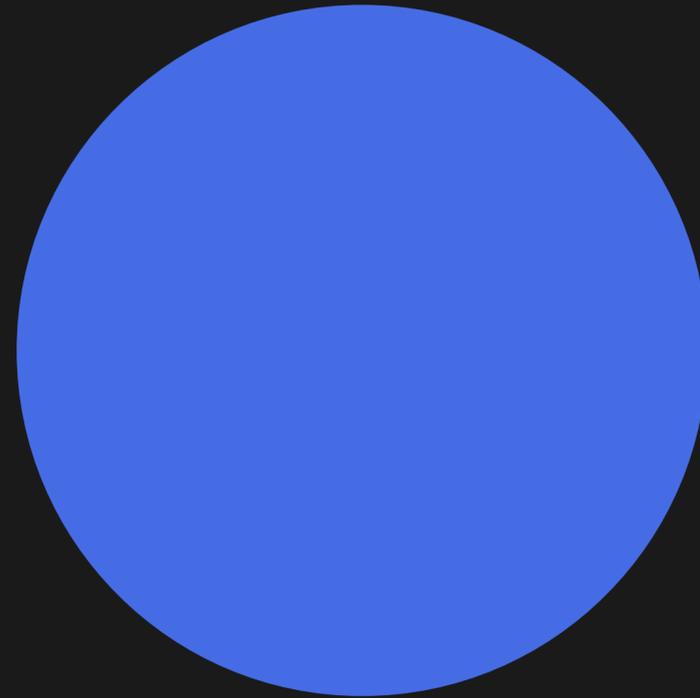
- Innovative air purification method based on Brownian Theory of Motion.
- Proprietary APAS fluid eradicates fungi, bacteria, yeasts and viruses.
- Organic, non-GMO fluid with proven efficacy and FDA approval.
- Certified 99.99% effective by CDC Standards.
- 50-watt pump for APAS fluid with or without Satori Aromas.
- Operates connected to HVAC air-handler or free-standing.
- WiFi connected with mobile application.
- Aluminum alloy construction.



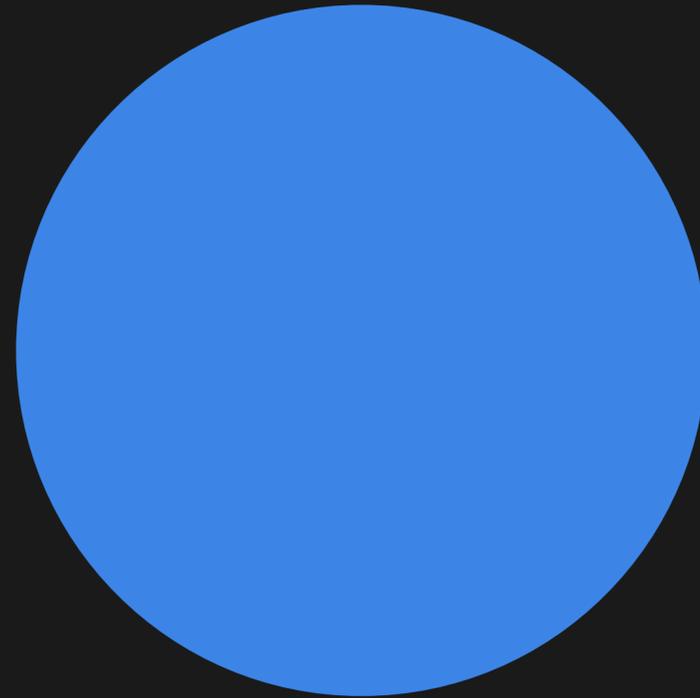
The Process



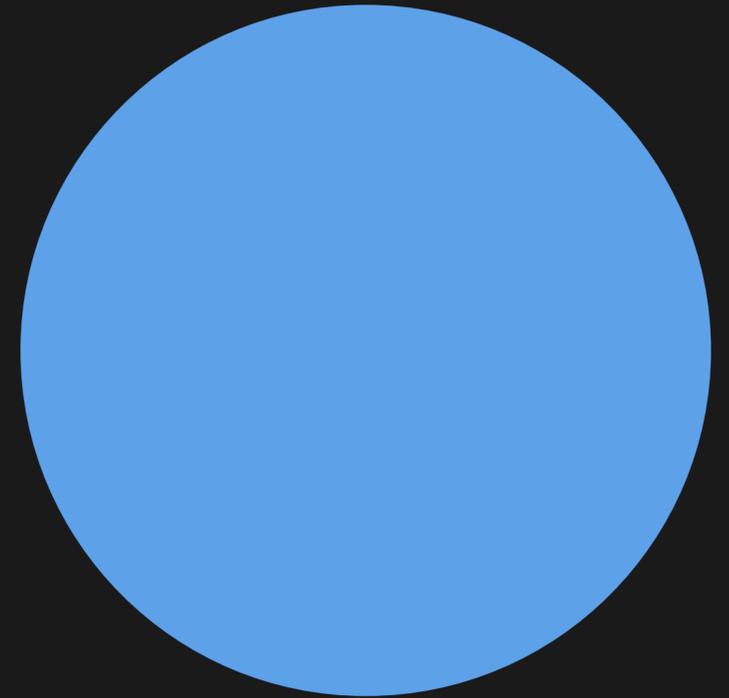
1. BASELINE TESTING



2. ACTIVATE PURIFICATION



3. ANALYSIS



4. MAINTENANCE



STEP 1 - BASELINE TESTING

1. Site Selection & Preparation

- Choose representative spaces such as classrooms, offices, gathering areas.
- Identify pollution and pathogenic sources.
- Document occupancy patterns, ventilation types, and room dimensions.

2. Sensor Setup

- Install Satori real-time IAQ monitors that measure:
 - CO (carbon dioxide): ventilation effectiveness and occupancy
 - PM2.5 & PM10: airborne particulates (from dust, smoke, etc.).
 - TVOCs (total volatile organic compounds): off-gassing from furniture, cleaning products.
 - Temperature & Humidity: comfort and mold risk.
 - Viral Load.

3. Monitoring and Data Logging

- Typically runs 2 weeks, but longer for high-variation environments.
- Captures data across different times of day, occupancy levels, and activities.
- Continuous data logging via dashboards to track trends, spikes, and averages.

4. Baseline Analysis

- Identify typical daily and weekly patterns.
- Problematic periods (e.g., high CO in meetings, high PM when cleaning), outliers or unsafe readings.
- Compare against health/safety guidelines (ASHRAE, EPA, WHO).

5. Reporting

- Graphs showing typical pollutant levels highlighting areas of concern.
- Recommendations for further monitoring or mitigation steps.

STEP 2 - ACTIVATE PURIFICATION



1. Installation of Satori units
 - Baseline pollutant hotspots.
 - Occupancy density.
 - Ventilation limitations.
2. System Calibration
 - Ensure airflow rates, purifier speeds, and filter types match room size and air exchange needs.
3. Post-Installation Monitoring
 - Resume real-time IAQ monitoring in same locations as baseline.
 - Compare data on PM_{2.5}, CO₂, TVOCs, pathogen proxy indicators.
4. Measure effectiveness
 - % reduction in pollutant concentrations.
 - Time to restore air quality after occupancy/events.
5. Expected Outcomes
 - Lower peak CO and PM_{2.5} levels.
 - Reduction in VOCs and indoor-generated odors.
 - Lower risk of airborne transmission of pathogens.
 - Improved occupant comfort and cognitive performance.

STEP 3 - ANALYSIS & RECOMMENDATION

1. Monitoring Overview

- Rooms/areas monitored
- Start/end dates (baseline / post-installation), instrumentation, Pollutants and Pathogens measured.

2. Baseline Findings

- PM2.5/PM10 levels: Peaks during occupancy or specific activities (e.g., cleaning).
- CO levels: Consistently over 1000 ppm during class sessions.
- TVOC spikes: Correlated with cleaning hours or high occupancy.
- Viral Load.

3. Occupant Risk Indicators

- Periods of thermal discomfort (humidity >60% or <30%).
- CO >1500 ppm = potential cognitive performance impacts.
- PM2.5 >35 $\mu\text{g}/\text{m}^3$ = above WHO 24-hour limit.

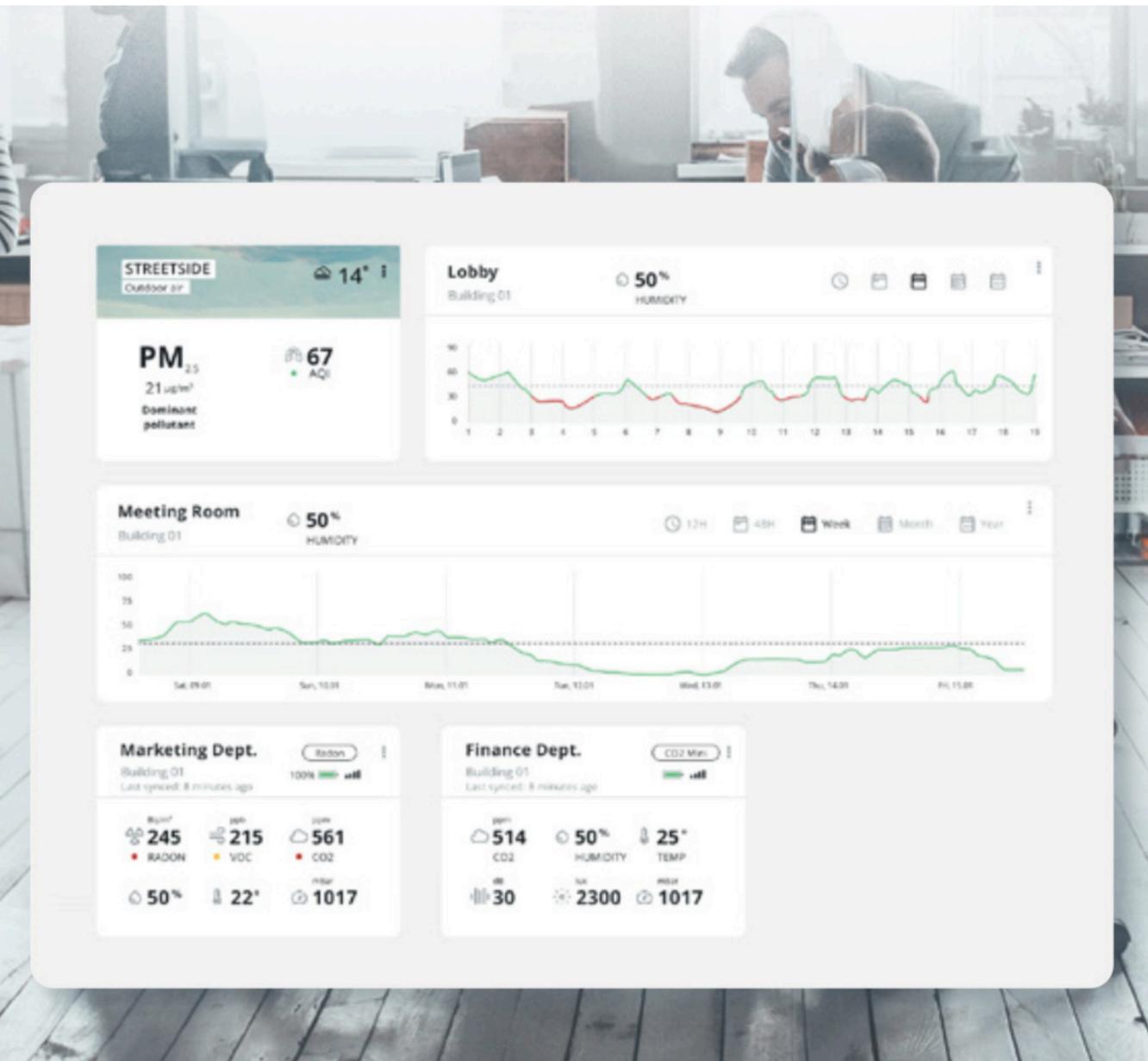
4. Intervention Actions

- Satori Clean Air System and HEPA Purifiers (number, placement, specs).

5. Post-Intervention Results

- Comparative Data (Before vs After) Visual Charts.
- Pollutant Avg (Before) Avg (After) % Change.
- 1350 ppm 900 ppm -33%.
- PM 2.5 40 $\mu\text{g}/\text{m}^3$ 10 $\mu\text{g}/\text{m}^3$ -75%.
- TVOCs 500 ppb 200 ppb -60%.
- Viral Load.

6. Recommendations: Short-Term, Medium-Term, Long-Term.





STEP 4 - ONGOING MAINTENANCE

1. Ongoing Testing

- Real-time IAQ sensors run 24/7 in key zones
- Weekly: Review sensor dashboards for unusual spikes or trends.
- Monthly: Export and archive logs; review with facilities or health/safety teams.
- Quarterly: Compare data to past quarters and reference standards (e.g., ASHRAE, WHO).
- Performance Checks after any occupancy change, renovation, HVAC adjustment.

2. Maintenance Schedule

- Satori Clean Air System APAS refilling.
- HEPA Filter replacement every 6–12 months.
- Fan/airflow inspection every 6 months.
- Deep system cleaning annually.

3. Sensor Calibration & QA

- CO Sensors Every 6–12 months.
- PM Sensors Every 6 months or as specified.
- VOC Sensors Every 12 months.
- Temp/Humidity annually.
- Validation Testing done annually or after changes via IAQ testing to validate sensor accuracy to confirm sensor consistency.

4. Documentation & Compliance - Maintain digital record of:

- Filter changes and sensor calibrations.
- IAQ performance summaries.
- Maintenance tasks (who, what, when.)
- Store all reports for auditing, health compliance, or grant/LEED requirements.

CLIENT LISTS

available on request

MULTI-FAMILY

COMMERCIAL BUILDINGS

SCHOOLS

6

5

4

3

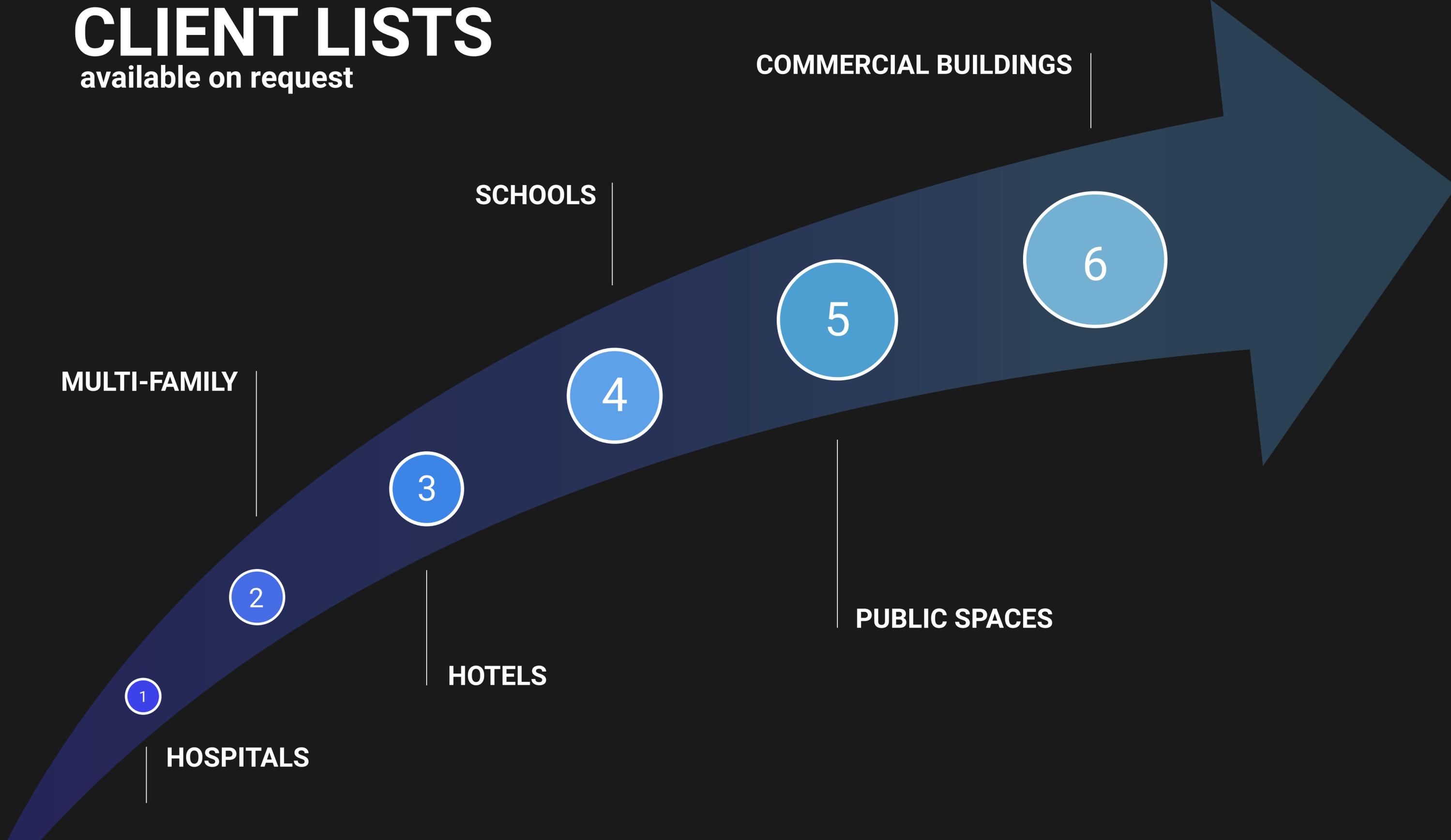
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PUBLIC SPACES

HOTELS

HOSPITALS



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